

KANAB CREEK BASIN

09403800 BITTER SEEPS WASH TRIBUTARY NEAR FREDONIA, AZ

LOCATION.--Lat 36°51'25", long 112°45'30", in NE¹/₄ sec.19, T.40 N., R.4 W., Mohave County, at State Highway 389, 1 mi west of Pipe Spring National Monument, and 14 mi southwest of Fredonia.

DRAINAGE AREA.--2.85 mi².

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1963	08-30-63	622		1970	08-18-70	670	
1964	07-24-64	736		1971	08-23-71	1,950	
1965	00-00-65	0		1972	09-20-72	50	ES
1966	00-00-66	0		1973	10-19-72	30	
1967	09-23-67	55		1974	00-00-74	0	
1968	07-31-68	57		1975	07-08-75	1,050	
1969	08-29-69	137		1976	00-00-76	165	

Magnitude and probability of instantaneous peak flow based on period of record 1963-76

Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2 50%	5 20%	10 10%	25 4%	50† 2%	100† 1%
127	575	1,240	2,780	4,660	7,350
Weighted skew	(logs) =	-0.11			
Mean	(logs) =	2.09			
Standard dev.	(logs) =	0.79			

† Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
129	2.9	5,120	40.0	3.0	12.0	1.5	3.2

